

Attorney Docket No.

033808-004

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Taekyun Kim et al.

Group Art Unit: 2171

Application No.: 10/618,857

Examiner:

Filing Date:

July 15, 2003

Confirmation No.: 6991

Title: APPARATUS AND METHOD FOR RETRIEVING FACE IMAGES USING COMBINED COMPONENT

**DESCRIPTORS** 

#### INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:			
	Enclosed is aInforma 1449 for the above-identified patent application		sclosure Statement and accompanying form
	No additional fee for submission of an ID	S is re	quired.
	☐ The fee of \$180.00 (1806) as set forth in	1 37 C.	F.R. § 1.17(p) is also enclosed.
	A statement under 37 C.F.R. § 1.97(e) is	also e	nclosed.
	A statement under 37 C.F.R. § 1.97(e), a § 1.17(p) are also enclosed.	nd the	fee of \$180.00 (1806) as set forth in 37 C.F.R
[	Charge to Deposit Accoun	t No. 0	2-4800 for the fee due.
	A check in the amount of i	is encl	osed for the fee due.
	Charge to credit card. F	orm P1	O-2038 is attached.
1.21 t			ropriate fees under 37 C.F.R. §§ 1.16, 1.17 and voverpayment, to Deposit Account No. 02-4800
		Res	spectfully submitted,
		BU	RNS, DOANE, SWECKER & MATHIS, L.L.P.
Alexa	Box 1404 ndria, Virginia 22313-1404 836-6620	Ву	M. Wan Kean
			M. David Ream
Date:	06 May 2005		Registration No. 35,333



# THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)
Taekyun Kim et al.	) Group Art Unit: 2171
Application No.: 10/618,857	) ) Examiner: \
Filed: July 15, 2003	) Confirmation No.: 6991
For: APPARATUS AND METHOD FOR RETRIEVING FACE IMAGES USING COMBINED COMPONENT DESCRIPTORS	) ) ) )

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement and not previously submitted to the U.S. Patent and Trademark Office in this application, was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

\_Information Disclosure Statement Application No. <u>10/618,857</u> Attorney's Docket No. <u>033808-004</u> Page 2

To assist the Examiner, the document is / documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date <u>06 May 2005</u>

By: //www.David Ream

Registration No. 35,333

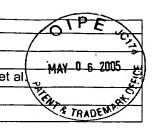
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## Substitute for form 1449A/PTO & 1449B/PTO

Sheet

### **FIRST** INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date July 15, 2003 **First Named Inventor** Taekyun Kim et al **Examiner Name** (use as many sheets as necessary) **Attorney Docket Number** 033808-004 of



Complete if Known

10/618,857

			U.S. PATENT DOCUMENTS	
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	2003/0215115	A1	Kim et al.	11-20-2003

**Application Number** 

-	NON-PATENT LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	Zhao L., et al., "Mosaic image method: a local and global method", Pattern Recognition, Elsevier, Kidlington, GB, August 1999, Vol. 32, No. 8, August 1999, pp. 1421-1433, XP0044169488
	Franc, V., et al., "An Extension of the Component-based LDA Descriptor by the Generalised Discriminant Analysis M8727", ISO IEC JTC1 SC29 WG11 MPEG2002, July 2002, pp. 1-5, XP002314056
	Belhumeur, P.N., et al., "Eigenfaces vs. Fisherfaces: Recognition Using Class Specific Linear Projection", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 19, No. 7, July 1997, pp. 711-720, New York. XP000698170
	Potamianos, G., et al., "Improved ROI and within frame discriminant features for lipreading", International Conference on Image Processing, Vol. 1 of 3, Conf. 8, October 2001, pp. 250-253, New York, New York, XP010563330
	Baudat, G., et al., "Generalized discriminant analysis using a kernel approach", Neural Computation, Massachusetts Institute of Technology, October 2000, Vol. 12, No. 10, pp. 2385-2404, XP002172299
	Kouzani, A.Z, et al., "Multiresolution eigenface-components", Speech and Image Technologies for Computing and Telecommunications, Proceedings of IEEE Brisbane, QLD, Australia, December 1997, pp. 353-356, New York, New York, USA, XP010264172
	Shakunaga, T., et al., "Decomposed eigenface for face recognition under various lighting conditions, Proceedings of the IEEE Computer Conference on Computer Vision and Pattern Recognition, Vol. 1 of 2, December 2001, pp. 864-871, Los Alamitos, CA, XP010583836
	Cagnoni, S., et al., "A modified modular eigenspace approach to face recognition", IEEE Comput. Soc., September 1999, pp 490-495, Los Alamitos, CA, XP010354175
	Pentland, A., et al., "View-Based and Modular Eigenspaces for Face Recognition", IEEE Comp. Soc. Press, June 1994, pp. 84-91, Los Alamitos, CA, XP000515825
	Tae-Kyun Kim, et al., "Face description based on decomposition and combining of a facial space with LDA", Int. Conf. Image Processing, Vol. 3, September 2003, pp. 877-880, XP010669974
	Jian Huang, et al., "Component-based LDA method for face recognition with one training sample", IEEE Int. Workshop Analysis and Modelling of Faces and Gestures, pp. 120-126, 2003, XP 010664354
	Qiong Yang et al., "Discriminant local feature analysis of facial images, Proc. Int. Conf. on Image Processing, Vol. 2, September 2003, pp. 863-866, XP010670594
	Gottumukkal R. et al., "An improved face recognition technique based on modular PCA approach", Pattern Recognition Letters, Vol. 25, No. 4, March 2004, pp. 429-436, North-Holland Publ. Amsterdam, NL,XP004487933

Examiner	Date	
Signature	Considered	